

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/037339 A1

(51) International Patent Classification⁷: **A61L 29/14**,
29/16, A61F 2/06

(21) International Application Number:
PCT/US2004/033851

(22) International Filing Date: 14 October 2004 (14.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

PA 2003 01514	14 October 2003 (14.10.2003)	DK
60/510,520	14 October 2003 (14.10.2003)	US
PA 2003 01864	16 December 2003 (16.12.2003)	DK
60/529,629	16 December 2003 (16.12.2003)	US
60/566,087	20 April 2004 (20.04.2004)	US
PA 2004 00671	29 April 2004 (29.04.2004)	DK

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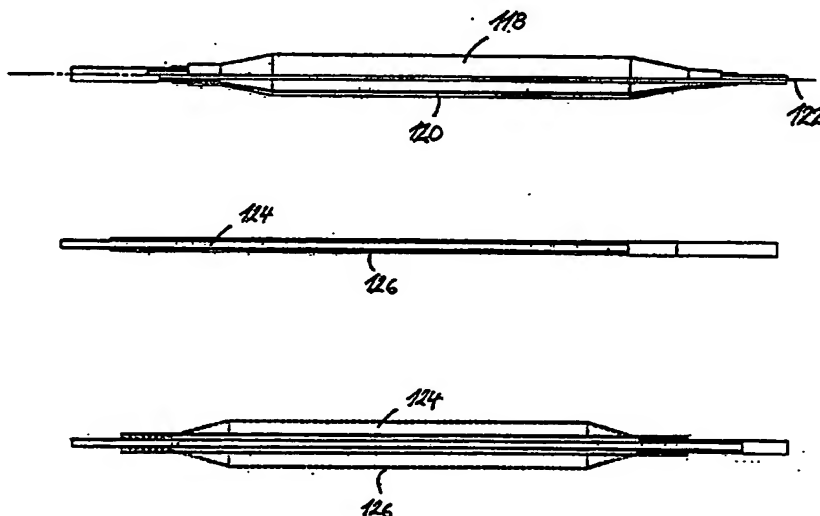
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: A BALLOON FOR USE IN ANGIOPLASTY



(57) Abstract: An expandable balloon for use in angioplasty procedures comprises a balloon having an outer surface layer, the outer surface layer being made from electrospun nanofibers and incorporating at least one pharmaceutically active substance, such as nitric oxide (NO). The outer surface layer may be formed on a separate flexible tubular member or sock, which is slipped over the balloon. An acidic agent, such as ascorbic acid, may be included in the balloon for enhancing NO release. A method of treating cell disorders in tubular structures of a living being comprises the steps of placing a coated balloon at a treatment site within the tubular structures, expanding the balloon at the treatment site, and releasing the pharmaceutically active substance at the treatment site. Optionally, a stent may be crimped onto the balloon prior to insertion of the balloon and stent into the tubular structures of the living being.

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European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

Published:

— *with international search report*

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